

Amendments to the Specification:

Please replace paragraph [0005] with the following rewritten paragraph:

[0005] In accordance with a first aspect of the invention, an air pressure state reporting apparatus is characterized by including an air pressure state detection device that is provided on a wheel and that detects a state of air pressure of a tire of the wheel, and ~~an a~~ reporting device that generates report information indicative of an air pressure state based on the state of air pressure detected by the air pressure state detection device, and that reports the report information generated to outside a vehicle.

Please replace paragraph [0008] with the following rewritten paragraph:

[0008] The reporting device reports the report information. If the reporting device includes a display, a voice generating device, etc., the content of air pressure state report information can be directly reported. Conversely, if the reporting device does not include a display, a voice generating device, etc., the reporting device may include ~~an a~~ reporting portion that is operated in a pattern that is determined corresponding to the content of the report information. The reporting portion may be a light radiation device that radiates light in a pattern corresponding to the report information, or a sound generating device that generates a sound in a pattern corresponding to the report information. The report information is reported to outside the vehicle. That is, the report information is reported so that a person outside the vehicle can recognize the information. It is not critical whether or not the reported information is recognizable to a person being within the vehicle.

Please replace paragraph [0009] with the following rewritten paragraph:

[0009] In the above-described aspect, the reporting device may include ~~an a~~ report information generating portion that generates the report information, and ~~an a~~ reporting portion that is operated in accordance with the report information generated by the report information generating portion.

Please replace paragraph [0014] with the following rewritten paragraph:

[0014] The sound generating device may include a plurality of speakers. The reporting portion of the light radiation device, the sound generating device or the like may be an vehicle-mounted reporting portion (electrical equipment) provided in the vehicle beforehand, or ~~an~~ a reporting portion provided in the vehicle specifically for reporting the state of air pressure. Although the vehicle-mounted reporting portion is provided for reporting the state of run of the vehicle and the like to the outside, the portion can be used as ~~an~~ a reporting portion for reporting the state of air pressure. The portable instrument operates in accordance with the report information. The portable instrument itself is vibrated, or the state of the light-emitting portion of the portable instrument is changed, or sound is generated from the portable instrument. A person carrying such a portable instrument can recognize the state of air pressure by changes in the state of the portable instrument. The portable instrument may be a device equipped with a vehicle key function, or may be a cellular phone. It is often the case that an operating person has a portable instrument.

Please replace paragraph [0028] with the following rewritten paragraph:

[0028] In the above-described aspect, the reporting device may include an air pressure state information generating portion that generates different kinds of pieces of air pressure state report information in accordance with different states of air pressure detected by the air pressure state detection device, and ~~an~~ a reporting portion capable of discriminatory reporting the different kinds of pieces of air pressure report information generated by the air pressure state information generating portion.

Please replace paragraph [0046] with the following rewritten paragraph:

[0046] In the above-described aspect, the air pressure state reporting apparatus may include an air pressure state detection device that is provided on a wheel and that detects a state of air pressure of a tire of the wheel, an air pressure supply state detection device that

detects whether air pressure is being supplied to the tire, and ~~an~~a reporting device that generates air pressure supply state report information based on the state of air pressure detected by the air pressure state detection device and reports the air pressure supply state report information generated, if it is detected by the air pressure supply state detection device that air pressure is being supplied. In this air pressure state reporting apparatus, the state of air pressure is reported. The air pressure supply state may be termed state of air pressure supplying operation performed by an operating person, or may be termed state of operation of the automatic air pressure supply device.

Please replace paragraph [0055] with the following rewritten paragraph:

[0055] ~~FIG. 5 is a flowchart~~FIGS. 5A and 5B are flowcharts illustrating ~~an~~a report control program stored in the vehicle body-side device; and

Please replace paragraph [0058] with the following rewritten paragraph:

[0058] The vehicle body-side device 28 includes the aforementioned transmitter-receiver devices 30-36, the information processor device 38 having a computer as a main component, ~~an~~a reporting device 72, wheel speed sensors 74, a target value setting switch 76, etc. The information processor device 38 includes a wheel state obtaining portion 80 for obtaining the state of the wheel, such as the air pressure, the temperature, etc., on the basis of the wheel information received by the transmitter-receiver devices 30-36, a standard-temperature air pressure obtaining portion 82 for obtaining the air pressure at a standard temperature on the basis of the air pressure and the temperature obtained by the wheel state obtaining portion 80 (through adjustment based on the temperature), ~~an~~a report control portion 84 for controlling the reporting device 72, etc. The transmitter-receiver devices 30-36 are disposed on portions of the vehicle body adjacent to the wheels 20-26, respectively, and each of the devices includes a transmit-receive antenna, a receiver circuit, a transmitter circuit, etc.

Please replace paragraph [0066] with the following rewritten paragraph:

[0066] The vehicle body-side device 28 executes a target value determining program illustrated by the flowchart of FIG. 4, and executes ~~an~~ a reporting portion control program illustrated by the flowcharts of FIGS. 5A and 5B. At S21, it is determined that the target value setting switch 76 has been operated. If the target value setting switch 76 is not operated, the process of S22 and the following steps will not be executed. If the target value setting switch 76 has been operated, the air pressure value and the temperature are obtained from wheel information at S22, and a standard-temperature air pressure is computed at S23. Subsequently at S24, it is determined whether the absolute value of a difference between the standard-temperature air pressure and the aforementioned predetermined appropriate value (e.g., which may be a value determined beforehand by a maker or the like) is less than or equal to a set value. If the absolute value of the difference is less than or equal to the set value, the value is adopted at S25 as a target value during supply of air pressure. Conversely, if the absolute value of the difference exceeds the set value, it is reported at S26 that the value is inappropriate as a target value. For example, the information that the absolute value is inappropriate may be indicated on the display 90 in the vehicle compartment. The appropriate value may be about 200 kPa, and the set value of threshold for the absolute value of the difference may be, for example, about 50 kPa in magnitude. Incidentally, the actual tire air pressure value in the case where the target value setting switch 76 has been operated may be a mean value of the air pressure values of the plural wheels 20 to 26, or may be an air pressure value obtained on the basis of the latest wheel information received. In addition, as the target value, the capability thereof to be set by a vehicle driver is not essential. That is, the target value may be an appropriate value or a value close to the appropriate value.

Please replace paragraph [0067] with the following rewritten paragraph:

[0067] At S50 in the flowchart of FIG. 8, 5A, it is determined whether wheel information has been received. If wheel information has been received, it is determined at S51 whether air pressure is being supplied. Specifically, it is determined whether the vehicle is in a stopped state and the gradient of increase in the air pressure value is greater than or equal to a set gradient (a set gradient for detecting the supply of air pressure). If it is determined that air pressure is being supplied into a tire by an operating person, it is then determined at S52 whether the tire temperature is higher than or equal to a set temperature. The set temperature is higher than a standard temperature by at least a set value. If the tire temperature is higher than or equal to the set temperature, the need for adjusting the air pressure value with reference to temperature is considered high. If the tire temperature is higher than or equal to the set temperature, the standard-temperature air pressure is determined at S53 through computation as described above. Conversely, if the tire temperature is lower than the set temperature, the detected air pressure value is directly used. This is because the difference between the detected air pressure value and the standard-temperature air pressure value is considered small. Subsequently at S54, it is determined whether the standard-temperature air pressure or the detected air pressure value is higher than or equal to the target value. If the standard-temperature air pressure or the detected air pressure value is higher than or equal to the target value, it is then determined at S55 whether the standard-temperature air pressure or the detected air pressure value is higher than or equal to a value that is greater than target value by α (i.e., target value + α).

Please replace paragraph [0072] with the following rewritten paragraph:

[0072] In this embodiment, the transmitter-receiver devices 30-36, portions of the information processor device 38 that store S50 and S51 shown in the flowchart of FIG. 5, 5A, portions thereof that execute S50 and S51, etc., may be regarded as corresponding to "an air

pressure supply state detecting device". Portions of the information processor device 38 that store S53 and S62, portions thereof that execute S53 and S62, etc., may be regarded as corresponding to "a standard-temperature air pressure obtaining portion". The light radiating portion 92 and the report control portion 84 may be regarded as corresponding to "~~an~~a reporting device". The light radiating portion 92 may be provided in the vehicle beforehand, and may be a vehicle-mounted reporting portion as a vehicle-mounted device.

Please replace paragraph [0073] with the following rewritten paragraph:

[0073] Although in the foregoing embodiment, the lamp 91 is employed as ~~an~~a reporting portion, a horn and the like may also be used as ~~an~~a reporting portion. With the sound generated from the horn, an operating person becomes aware that the air pressure has reached the target value. Furthermore, the state of air pressure may also be reported via the portable instrument 100. In that case, the portable instrument 100 is vibrated, or a buzzer sound or the like is generated from the portable instrument 100, or the light-emitting portion is flickered, etc. In this embodiment, different kinds of states of air pressure can be discriminatory reported. Although in the embodiment, the transmitter-receiver device 102 for the portable instrument is provided separately from the transmitter-receiver devices 30-36 provided for the wheel-side device, the transmitter-receiver devices 30-36 and the transmitter-receiver device 102 may be combined as common devices.

Please replace paragraph [0074] with the following rewritten paragraph:

[0074] Furthermore, the state of air pressure may be reported by moving a movable member, such as a windshield wiper, a window, a side mirror, etc. In this embodiment, if the states of rotation (rotation angle, a rotating speed, a rotation frequency, number of rotations, a rotation time, etc.) are changed, it becomes possible to report the plural states of air pressure discriminatory. It is also possible to provide ~~an~~a reporting portion dedicated for reporting the state of tire air pressure. It is also possible to provide a lamp at such a position that light from

the lamp can illuminate the wheels 20 to 26 of the vehicle body, or provide a light-emitting portion on each tire wheel.